

WHAT IS CLAIMED IS:

1. A shutter apparatus comprising:

a shutter base plate having a shutter aperture;

a first arm member which rotates around a center  
5 of rotation at a first axis, relative to said shutter  
base plate;

a second arm member which rotates around a center  
of rotation at a second axis, relative to said shutter  
base plate; and

10 a plurality of shutter blades,

wherein each of the plurality of shutter blades is  
coupled to said first and second arm members, wherein  
said first and second arm members rotate around their  
respective axes whereby said plurality of shutter  
15 blades run over said shutter aperture, wherein each  
shutter blade has a blade main body portion extending  
in a direction perpendicular to a running direction  
thereof, and wherein a first shutter blade with a  
smallest running travel comprises a light shielding  
20 portion projecting in said running direction on the  
coupling portion side to said first and second arm  
members and arranged to effect light shielding of said  
shutter aperture.

25 2. The apparatus according to Claim 1, which  
satisfies the following condition:

$$L1 > W1,$$

10055978.012802

where W1 is a length in the running direction, of the blade main body portion of said first shutter blade and L1 is a projection length of said light shielding portion from said blade main body portion.

5

3. The apparatus according to Claim 1, wherein a second shutter blade with a second smallest running travel out of said plurality of shutter blades comprises a second light shielding portion projecting in said running direction on the coupling portion side to said first and second arm members and arranged to effect light shielding of said shutter aperture.

10

4. The apparatus according to Claim 3, which satisfies the following condition:

15

$$L2 > W2,$$

where W2 is a length in the running direction, of the blade main body portion of said second shutter blade and L2 is a projection length of said second light shielding portion from said blade main body portion.

20

5. A camera comprising the apparatus as set forth in Claim 1.

25

6. The apparatus according to Claim 1, wherein the number of said shutter blades is 4.

10055978.012802

7. A shutter apparatus comprising:

a shutter base plate having a shutter aperture;

a first arm member which rotates around a center  
of rotation at a first axis, relative to said shutter  
5 base plate;

a second arm member which rotates around a center  
of rotation at a second axis, relative to said shutter  
base plate; and

a plurality of shutter blades,

10 wherein each of the plurality of shutter blades is  
coupled to said first and second arm members, wherein  
said first and second arm members rotate around their  
respective axes whereby said plurality of shutter  
blades run over said shutter aperture, wherein each  
15 shutter blade has a blade main body portion extending  
in a direction perpendicular to a running direction  
thereof, and wherein a first shutter blade with a  
second smallest running travel comprises a light  
shielding portion projecting in said running direction  
20 on the coupling portion side to said first and second  
arm members and arranged to effect light shielding of  
said shutter aperture.

8. The apparatus according to Claim 7, which  
25 satisfies the following condition:

$L2 > W2$ ,

where  $W2$  is a length in the running direction, of

10055978.012802

the blade main body portion of said first shutter blade and L2 is a projection length of said light shielding portion from said blade main body portion.

5           9. The apparatus according to Claim 7, wherein a second shutter blade with a smallest running travel out of said plurality of shutter blades comprises a second light shielding portion projecting in said running direction on the coupling portion side to said first  
10 and second arm members and arranged to effect light shielding of said shutter aperture.

10. The apparatus according to Claim 9, which satisfies the following condition:

15           L1 > W1,

          where W1 is a length in the running direction, of the blade main body portion of said second shutter blade and L1 is a projection length of said second light shielding portion from said blade main body  
20 portion.

11. A camera comprising the apparatus as set forth in Claim 7.

25           12. The apparatus according to Claim 7, wherein the number of said shutter blades is 4.

10055978.012802